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IN RE THE APPLICATION OF:

Inventor : Mitchell R. Swartz

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For: **METHOD AND APPARATUS  
TO MONITOR LOADING  
USING VIBRATION**

previously "Systems To Monitor And Accelerate  
Electrochemically Induced Fusion Reactions"

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**ABSTRACT OF THE DISCLOSURE**

The present invention relates to processes and systems involving loading, such as palladium internally filling ["loading"] with deuterons. The system includes a novel cathode able to vibrate at a natural frequency, means to drive said frequency, and means to monitor said frequency, means to relate frequency changes to changes in the cathodic mass which herald loading. In one configuration said means to vibrate said cathode occurs by an applied external magnetic field intensity.

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